
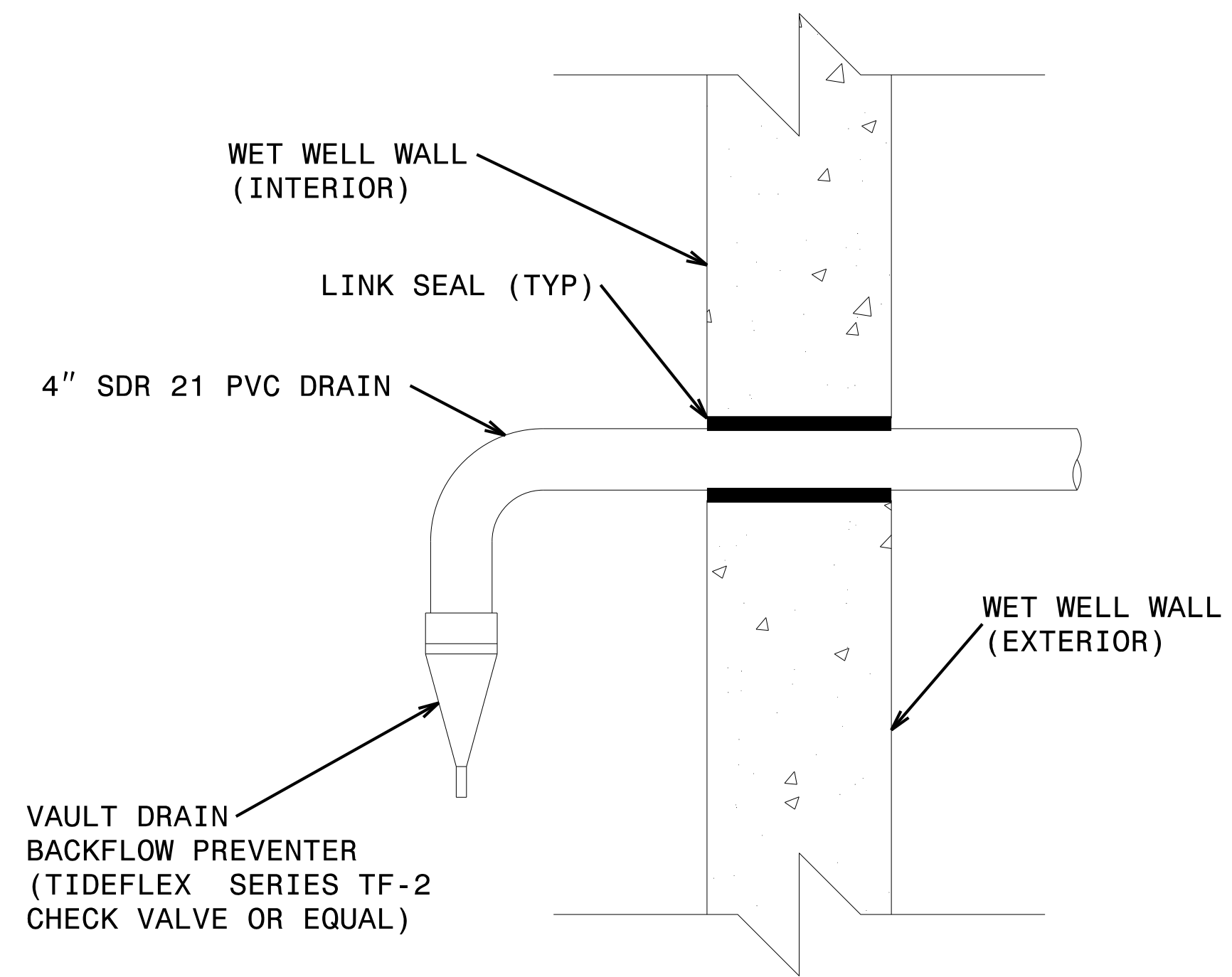


5/14/99
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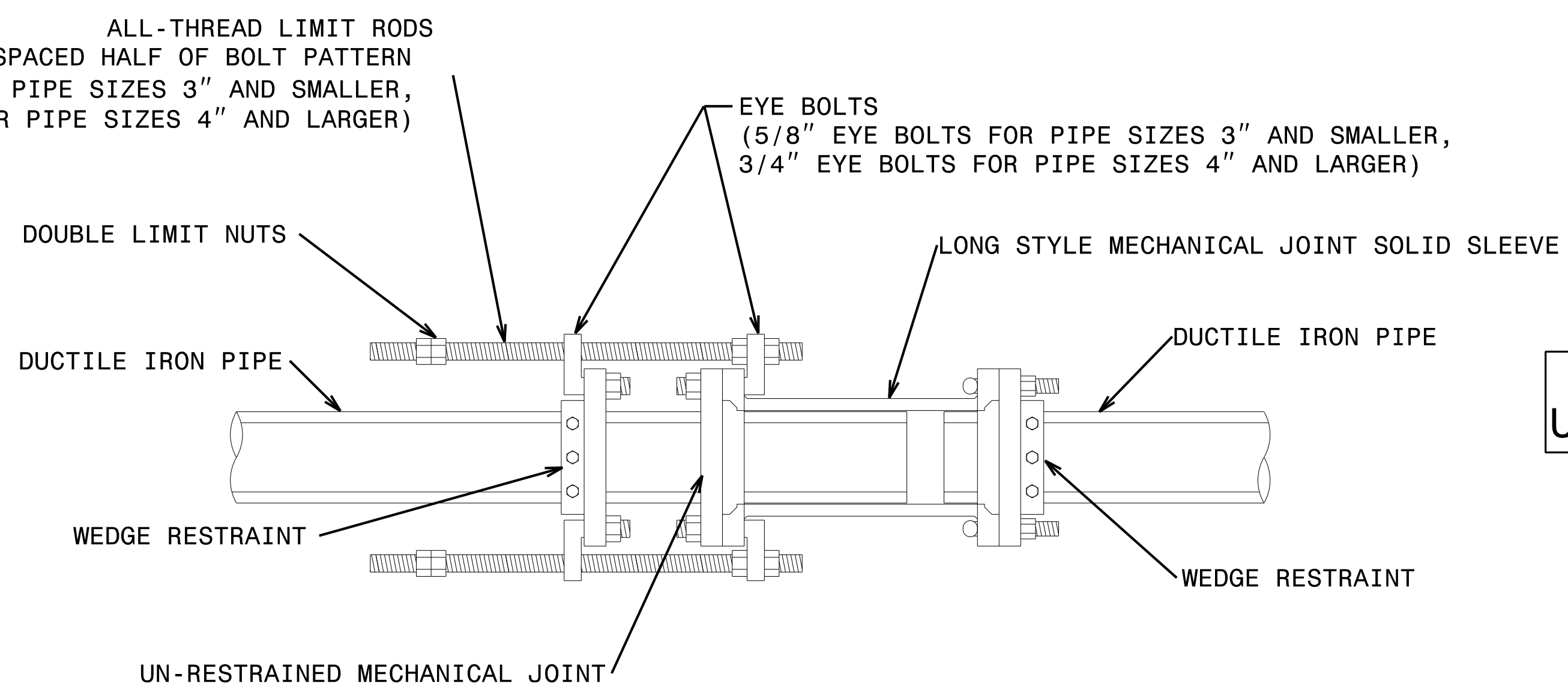
PROJECT REFERENCE NO.	SHEET NO.
R-5021	UC-P9
DESIGNED BY: DWT	
DRAWN BY: RAS	
CHECKED BY: JWC	
APPROVED BY: BMB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

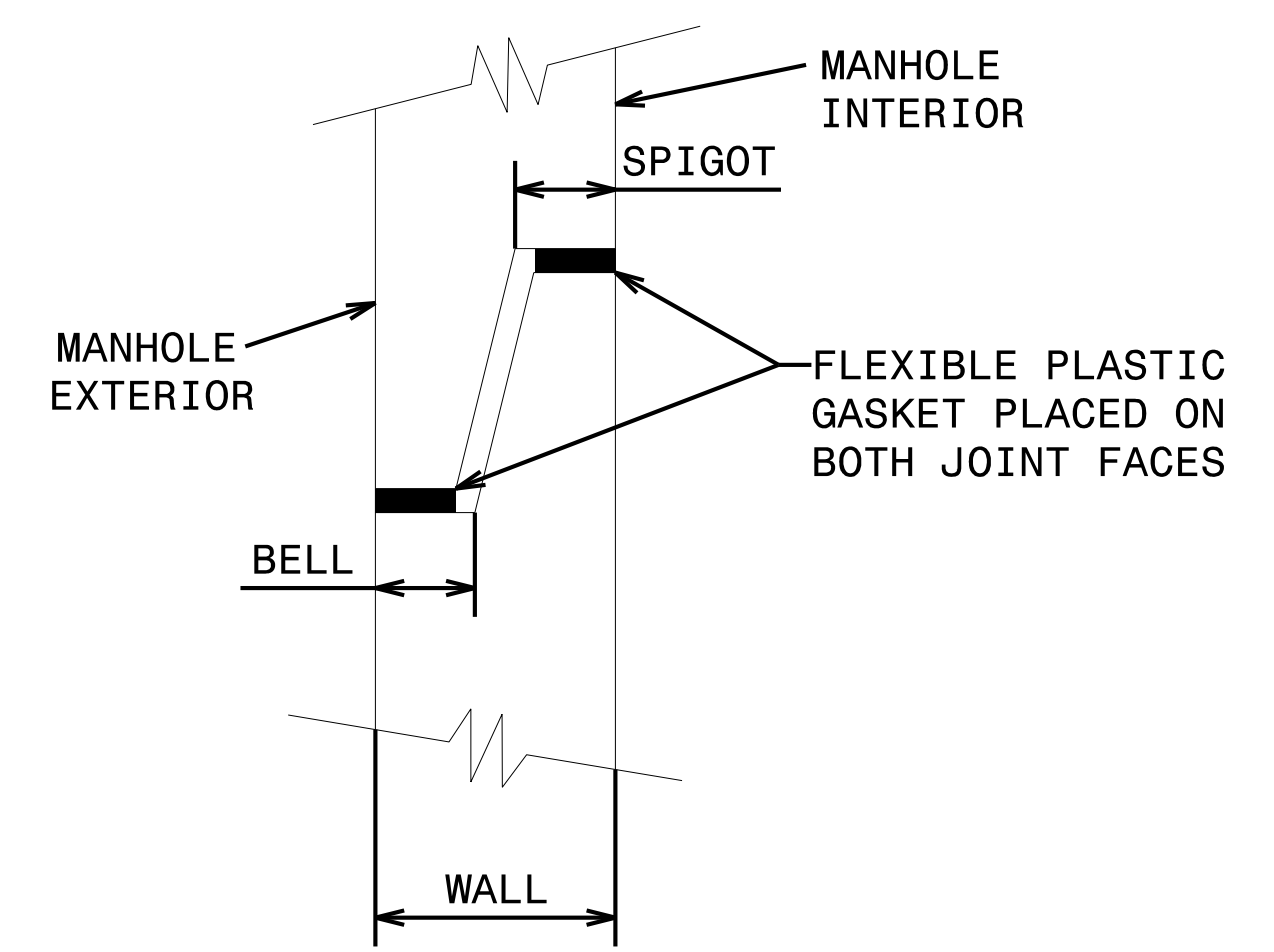


**VAULT DRAIN
BACKFLOW PREVENTER DETAIL
NOT TO SCALE**



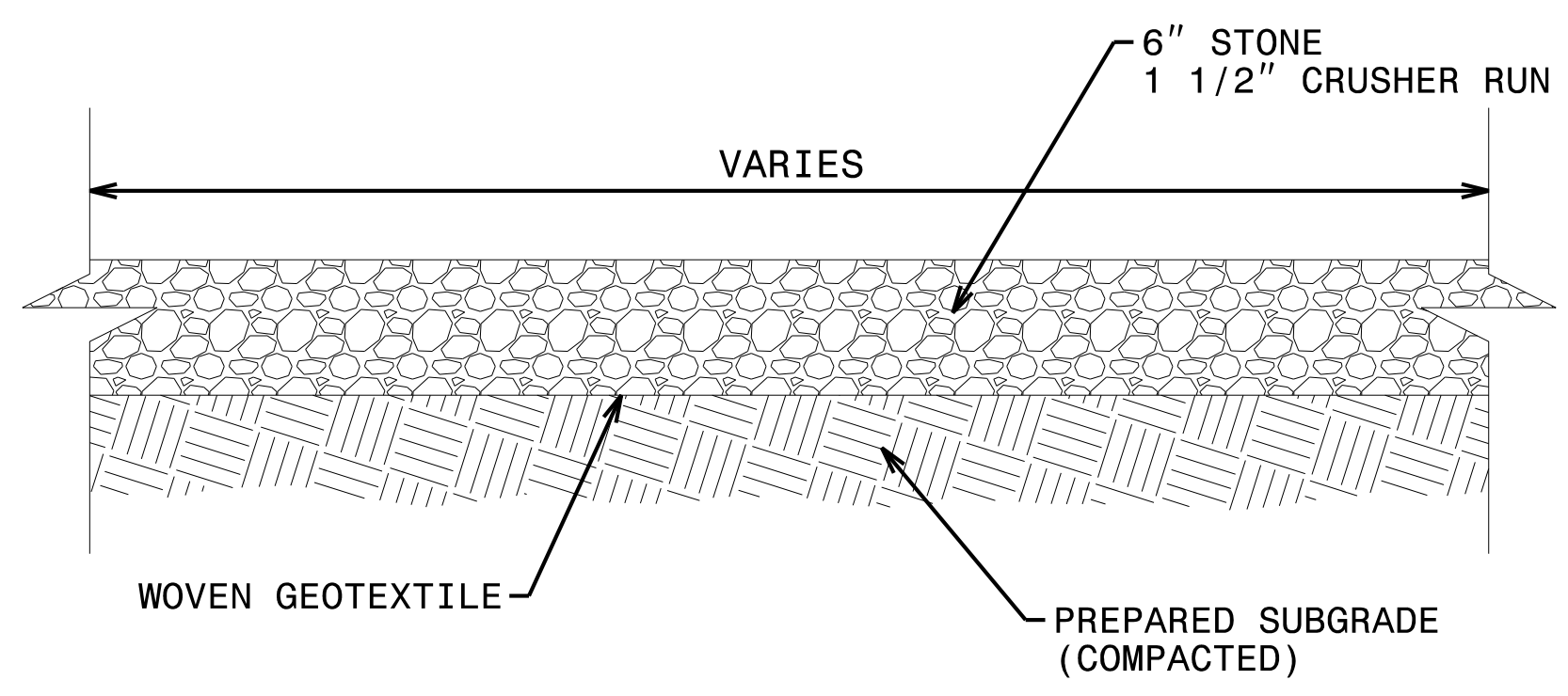
- NOTE :**
1. CONTRACTOR MUST SET DOUBLE LIMIT NUTS AT A DISTANCE THAT DOES NOT ALLOW THE PIPE TO BE PULLED OUT OF THE SOLID SLEEVE DURING EXPANSION.
 2. ABOVE DETAIL DEPICTS EXPANSION/CONTRACTION JOINT FOR PIPE SIZES 3" AND LARGER. EXPANSION/CONTRACTION JOINT FOR 2" PVC PIPE IS SIMILAR AND UTILIZES SPLIT CLAMP-STYLE RESTRAINT RINGS. RESTRAINT RING FOR BELL END OF PIPE SHALL BE NON-SERRATED AND THE RESTRAINT RING FOR THE PLAIN END OF PIPE SHALL BE SERRATED.

**EXPANSION/CONTRACTION JOINT
DETAIL
NOT TO SCALE**

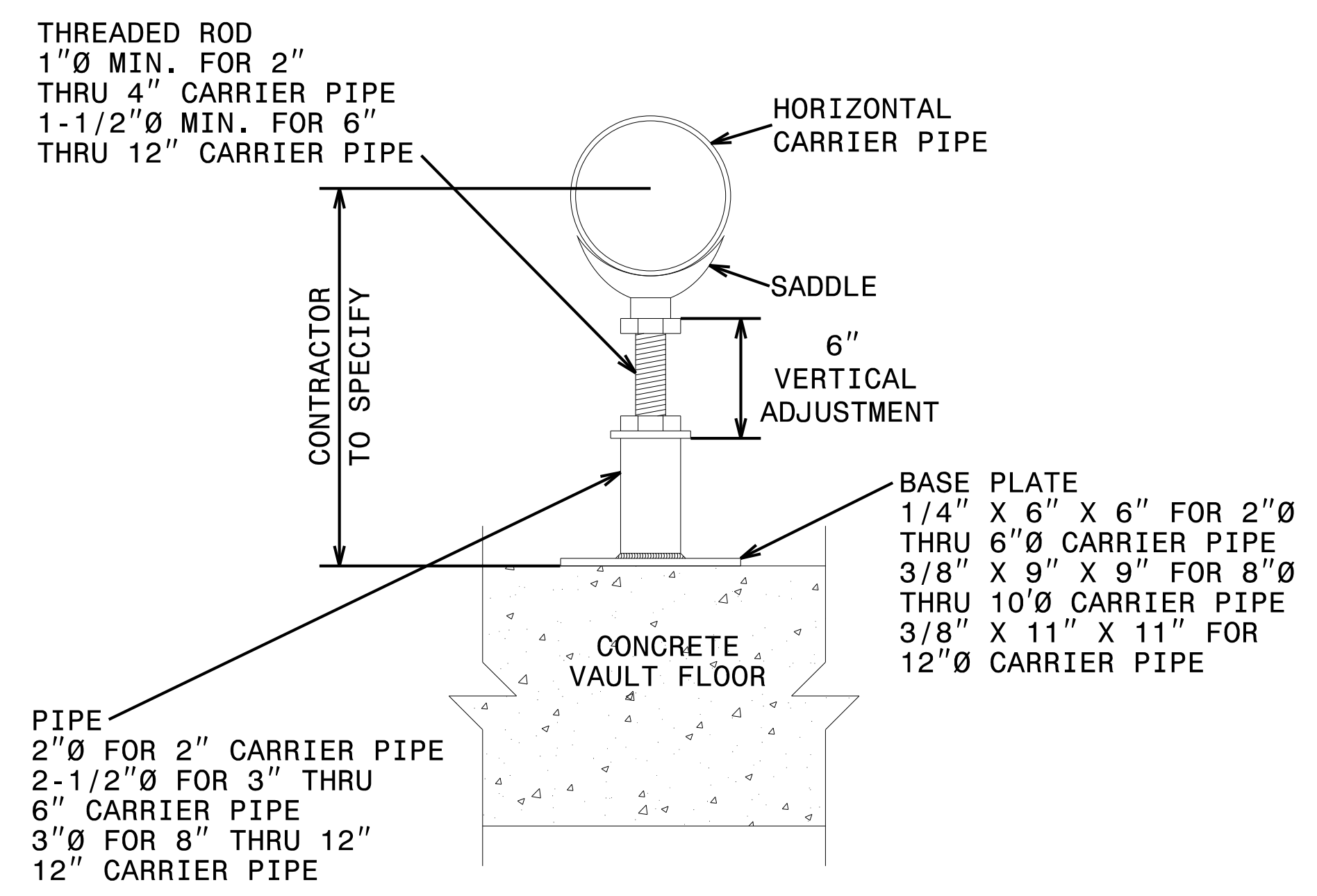


NOTE: CONTRACTOR SHALL COORDINATE JOINT LOCATIONS TO AVOID PIPE PENETRATIONS.

**PRECAST JOINT DETAIL
NOT TO SCALE**



**PUMP STATION GRAVEL PAD /
ENTRANCE TYPICAL SECTION
NOT TO SCALE**



= PIPE STAND LOCATION ON PLAN VIEW DRAWINGS. STANCHION SHALL BE STAINLESS STEEL.

**STANCHION SADDLE HORIZONTAL
PIPE SUPPORT
NOT TO SCALE**

PUMP STATION DETAILS